



DEPARTMENT OF TRANSPORTATION
HAZARDOUS MATERIALS REGULATIONS BOARD
WASHINGTON, D.C. 20590

Title 49—TRANSPORTATION

Chapter I—Hazardous Materials Regulations Board, Department of Transportation

[Docket No. HM-3; Amdt. Nos. 174-3,
177-5, 178-3]

MISCELLANEOUS AMENDMENTS TO CHAPTER; CORRECTION

On May 1, 1969, the Hazardous Materials Regulations Board published several amendments to the Department's Hazardous Materials Regulations (49 CFR Parts 170-189; 34 F.R. 7158). On May 6, 1969, portions of Amendment No. 178-3 were republished in the FEDERAL REGISTER (34 F.R. 7332) to correct errors in printing. Since that time, three omissions have been brought to the Board's attention, and this action corrects those omissions.

Amendments 174-3 and 177-5. In §§ 174.538(a) and 177.848(a) (loading and storage charts) the amendments did not specify the addition of the footnote "f" reference at the intersection of horizontal column 15 with vertical columns a through g respectively as was intended.

Amendment 178-3. As stated in item 16 of the preamble, it was intended to provide for rephosphorized steels by addition of a new footnote 6 to Table I of Appendix A to Part 178. This provision was unintentionally omitted when the amendment was published. The addition of a phosphorus limit of 0.045 for grade 3 steel without the footnote authorization had the effect of excluding the use of rephosphorized steel. This change was not intended.

In consideration of the foregoing, Amendments 174-3, 177-5, and 178-3 are hereby corrected as set forth below.

PART 174—CARRIERS BY RAIL FREIGHT

I. In Amendment 174-3, the amendment to § 174.538 item IV (A) is corrected to read as follows:

(A) In § 174.538(a) the Chart is amended by adding the following new footnote f and adding a footnote "f" reference at the intersection of vertical column 15 with horizontal columns, a, b, c, d, e, f, and g, respectively, and at the intersection of horizontal column 15 with vertical columns a, b, c, d, e, f, and g, respectively.

§ 174.538 Loading and storage chart of explosives and other dangerous articles.

(a) * * *

* Normal uranium, depleted uranium, and thorium metal in solid form may also be loaded and transported with articles named in vertical and horizontal columns a, b, c, d, e, f, and g.

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PART 177—SHIPMENTS MADE BY WAY OF COMMON, CONTRACT, OR PRIVATE CARRIERS BY PUBLIC HIGHWAY

II. In Amendment 177-5 the amendment to § 177.848(a) item V (A) is corrected to read as follows:

(A) In § 177.848(a) the chart is amended by adding the following new footnote f and adding a footnote "f" reference at the intersection of vertical column 15 with horizontal columns, a, b, c, d, e, f, and g, respectively, and at the intersection of horizontal column 15 with vertical columns, a, b, c, d, e, f, and g, respectively.

§ 177.848 Loading and storage chart of explosives and other dangerous articles.

(a) * * *

* Normal uranium, depleted uranium, and thorium metal in solid form may also be loaded and transported with articles named in vertical and horizontal columns a, b, c, d, e, f, and g.

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PART 178—SHIPPING CONTAINER SPECIFICATIONS

III. In Amendment 178-3 "Appendix A—Specifications For Steel" to Part 178 is corrected to read as follows:

APPENDIX A—SPECIFICATIONS FOR STEEL

TABLE 1

Open-hearth, basic oxygen, or electric steel of uniform quality.
The following chemical composition limits are based on ladle analysis:

Designation	Chemical composition, percent-ladle analysis		
	Grade 1 ¹	Grade 2 ^{1,2}	Grade 3 ^{2,4,5}
Carbon.....	0.10/0.20.....	0.24 maximum.....	0.22 maximum.
Manganese.....	1.10/1.60.....	0.50/1.00.....	1.25 maximum.
Phosphorus, maximum.....	0.04.....	0.04.....	0.045. ⁶
Sulfur, maximum.....	0.05.....	0.05.....	0.05.
Silicon.....	0.15/0.30.....	0.30 maximum.....	
Copper, maximum.....	0.40.....		
Columbium.....		0.01/0.04.....	
Heat treatment authorized.....	(³).....	(³).....	(³).
Maximum stress (p.s.i.).....	35,000.....	35,000.....	35,000.

¹ Addition of other elements to obtain alloying effect is not authorized.

² Ferritic grain size 6 or finer according to ASTM E112-63.

³ Any suitable heat treatment in excess of 1,100° F. except that liquid quenching is not permitted.

⁴ Other alloying elements may be added and shall be reported.

⁵ For compositions with a maximum carbon content of 0.15 percent on ladle analysis, the maximum limit for manganese on ladle analysis may be 1.40 percent.

⁶ Rephosphorized Grade 3 steels containing no more than 0.15 percent phosphorus are permitted if carbon content does not exceed 0.15 percent and manganese does not exceed 1 percent.

CHECK ANALYSIS TOLERANCES

A heat of steel made under any of the above grades, the ladle analysis of which is slightly out of the specified range, is acceptable if the check analysis is within the following variations:

Element	Limit or maximum specified (percent)	Tolerance (percent) over the maximum limit or under the minimum limit	
		Under minimum limit	Over maximum limit
Carbon.....	To 0.15 inclusive.....	0.02	0.03
	Over 0.15 to 0.40 inclusive.....	0.03	0.04
Manganese.....	To 0.60 inclusive.....	0.03	0.03
	Over 0.60 to 1.15 inclusive.....	0.04	0.04
	Over 1.15 to 2.50 inclusive.....	0.05	0.05
Phosphorus ⁷	All ranges.....		0.01
Sulfur.....	All ranges.....		0.01
Silicon.....	To 0.30 inclusive.....	0.02	0.03
	Over 0.30 to 1.00 inclusive.....	0.05	0.05
Copper.....	To 1.00 inclusive.....	0.03	0.03
	Over 1.00 to 2.00 inclusive.....	0.05	0.05
Nickel.....	To 1.00 inclusive.....	0.03	0.03
	Over 1.00 to 2.00 inclusive.....	0.05	0.05
Chromium.....	To 0.90 inclusive.....	0.03	0.03
	Over 0.90 to 2.10 inclusive.....	0.05	0.05
Molybdenum.....	To 0.20 inclusive.....	0.01	0.01
	Over 0.20 to 0.40 inclusive.....	0.02	0.02
Zirconium.....	All ranges.....	0.01	0.05
Columbium.....	To 0.04 inclusive.....	0.005	0.01
Aluminum.....	Over 0.10 to 0.20 inclusive.....	0.04	0.04
	Over 0.20 to 0.30 inclusive.....	0.05	0.05

⁷ Rephosphorized steels not subject to check analysis for phosphorus.

(Secs. 831-835, title 18, United States Code; Issued in Washington, D.C., on July
sec. 9, Department of Transportation Act 18, 1969.
(49 U.S.C. 1657); Title VI, sec. 902(h), Federal
Aviation Act of 1958 (49 U.S.C. 1421-
1430, 1472(h)))

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[F.R. Doc. 69-8660; Filed, July 24, 1969;
8:45 a.m.]